

PR-105

**STUDY OF THE TARGET EFFICIENCY AND TOXICITY
OF THE INSECTICIDE WITH NEW PREPARATIVE FORM****A. V. Tretiakov^{a, 1,2}, S. B. Yaroshuk², V. F. Markov^{1,4}, I. S. Kovalev³**

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Abstract. We studied the efficiency and toxicity of new insecticide "GET Dry" (active ingredients of alpha-cypermethrin and imidacloprid). The target efficiency as acute and residual impact was studied, when agent was applied against the tropic and bed bugs (*Cimex hemipterus*), German cockroach (*Blatella germanica*), false stable flies (*Musca domestica*) and larvae of the leather beetles (*Attagenus smirnovi*). The agent demonstrated strong acute effect (about 100%), when applied against the cockroaches, bugs and flies. Moreover, the agent demonstrates the residual impact on the cockroaches, flies, fleas during 45 days, and on the bugs during 30 days. The slight insecticidal activity was observed, when the agent was applied against the larvae. We studied toxicity of the agent – DL₅₀, when swallowed (moderately hazardous substances, class III) and when applied to the skin (low-hazard substance, class IV), as well as we studied its inhalation hazard according to its volatility 20°C, irritant action, when applied to the skin (slight) and eye irritation (moderate). Sensibilizing action was not observed.

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